MA

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Northern Hardwood	1000 Acres	Severe

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Eastern Tent Caterpillar

SCIENTIFIC NAME Malacosoma americanum

SPECIFIC TREE SPECIES AFFECTED Black and Pin Cherry, Apple and Crabapple

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

All Age Classes

SURVEY METHOD

Ground

TREATMENT (if any)

None

TREND (Past and future)

Expect to remain heavy for the next year or two

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

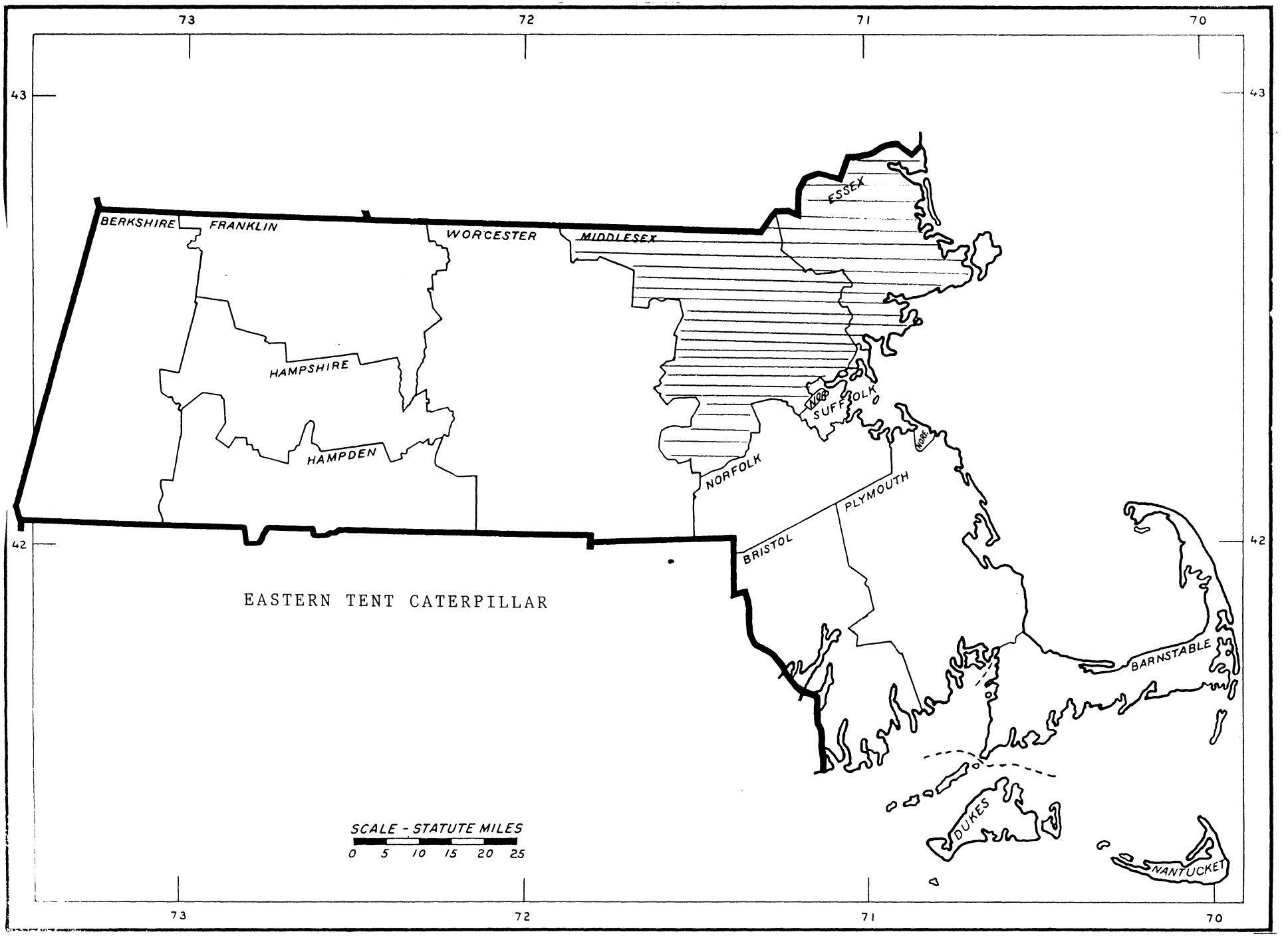
COUNTY	TOWNSHIP
Middlesex	All Communities
Esses	All Communities

(If needed, continue on reverse side)

COMMENTS

MA

MASSACHUSETTS



MA

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Northern Hardwood	1,000 Acres	Severe

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Fall Webworm

SCIENTIFIC NAME Hyphantria conea

SPECIFIC TREE SPECIES AFFECTED Black and Pin Cherry, Apple and Crabapple

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Mature Trees

SURVEY METHOD

Ground

TREATMENT (if any)
None

TREND (Past and future)

Expected to Continue with Heavy defoliation

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

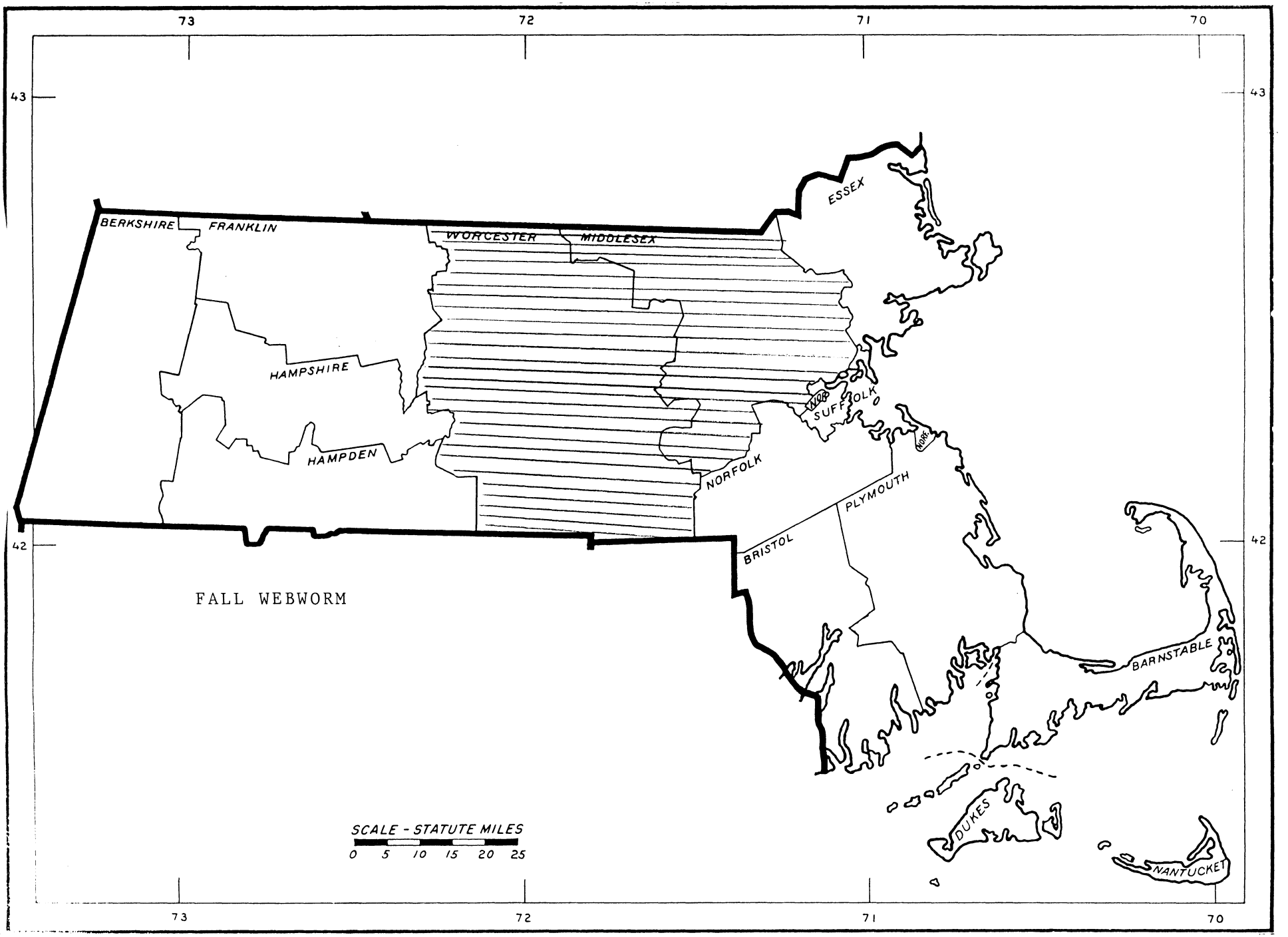
COUNTY	TOWNSHIP
Middlesex	All commmuities
Worcester	All Communities

(If needed, continue on reverse side)

COMMENTS

MA

MASSACHUSETTS



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FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Oak/Hickory	123,794 Acres	12,356 Light
		24,934 Moderate
		86,505 Heavy

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Gypsy Moth

SCIENTIFIC NAME Lymantaria dispar

SPECIFIC TREE SPECIES AFFECTED Red Oak

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

All age classes

SURVEY METHOD

Aerial Survey

TREATMENT (if any)

Coop Suppression with Dipel 6AF 24 BIU/AC June 92 2,770 Acres Treate

TREND (Past and future)

Population declined from 282,000 in 1991 to 123,794 this year

LOCATION **MAP ENCLOSED** * **TAPE ENCLOSED** _____

STATEWIDE X **OR:**

COUNTY _____ **TOWNSHIP** _____

_____ _____

_____ _____

_____ _____

_____ _____

(If needed, continue on reverse side)

COMMENTS

* September 92 defoliation supplied on 1:100,000 scale maps

MA

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
White/Red/Jack Pine	1,481 Acrea	309 Acres Light
		580 Acres Moderate
		592 Acres Heavy

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Hemlock Looper

SCIENTIFIC NAME Lambdina athasaria

SPECIFIC TREE SPECIES AFFECTED Eastern Hemlock

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Pole and Mature Trees

SURVEY METHOD

Aerial and Ground

TREATMENT (if any)

None

TREND (Past and future)

In the heavy defoliation the population appears to have collapsed, in the other areas I would expect to have additional defoliation next summe

LOCATION **MAP ENCLOSED** X * **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY	TOWNSHIP
Franklin	Orange
Worcester	New Salem
	Petersham
	Hardwick

(If needed, continue on reverse side)

COMMENTS

* 1:100,000 Map, Holyoke and KeeneQuads

MA

FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Ornamental	9 New Location in	1992 Heavy

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Hemlock Woolly Adelgid

SCIENTIFIC NAME Adelges tsugae

SPECIFIC TREE SPECIES AFFECTED Eastern Hemlock

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Hedge and Mature trees

SURVEY METHOD

All infestations were reported as a result of news media coverage and programs presented to the landscape contractors at annual meetings

TREATMENT (if any)

Unknown

TREND (Past and future)

Expect to find new infestations in future years

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY	TOWNSHIP
Hampden	Longmeadow, Agawam, Southwick
Essex	Manchester
Middlesex	Waltham, Newton
Norfolk	Brookline, Milton
Plymouth	Plymouth (Manomet section)
Barnstable	Mashpee

(If needed, continue on reverse side)

COMMENTS

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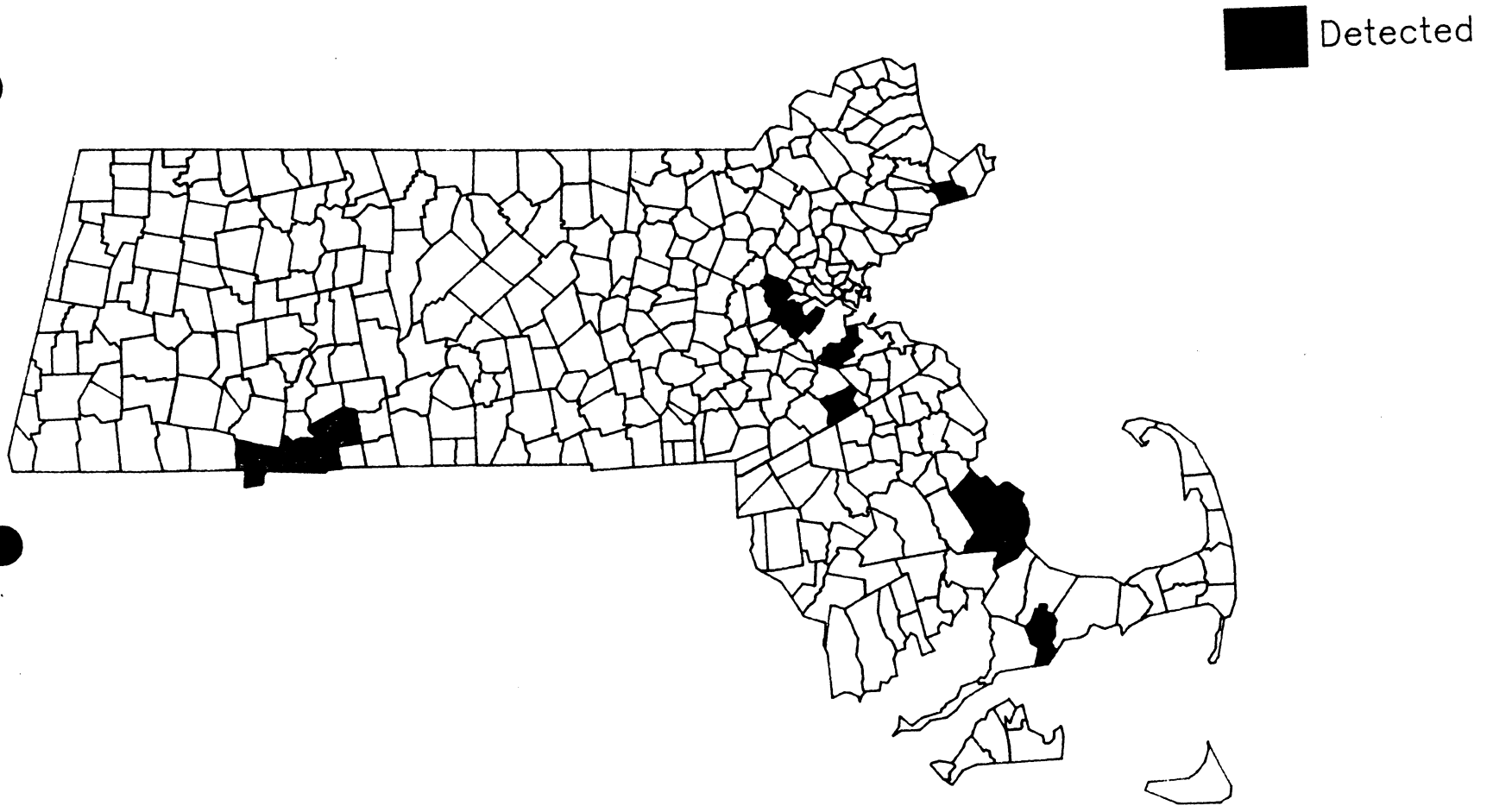
Hemlock Woolly Adelgid Detections
1989 to 1992



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FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Spruce/Fir	25 Acres	Moderate

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Larch Sawfly

SCIENTIFIC NAME Pristiphora erichsonii

SPECIFIC TREE SPECIES AFFECTED Tamarack

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)
Mature Trees

SURVEY METHOD

Reported by a management forester

TREATMENT (if any)

None

TREND (Past and future)

Expected to increase

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY Worcester **TOWNSHIP** Barre

(If needed, continue on reverse side)

COMMENTS

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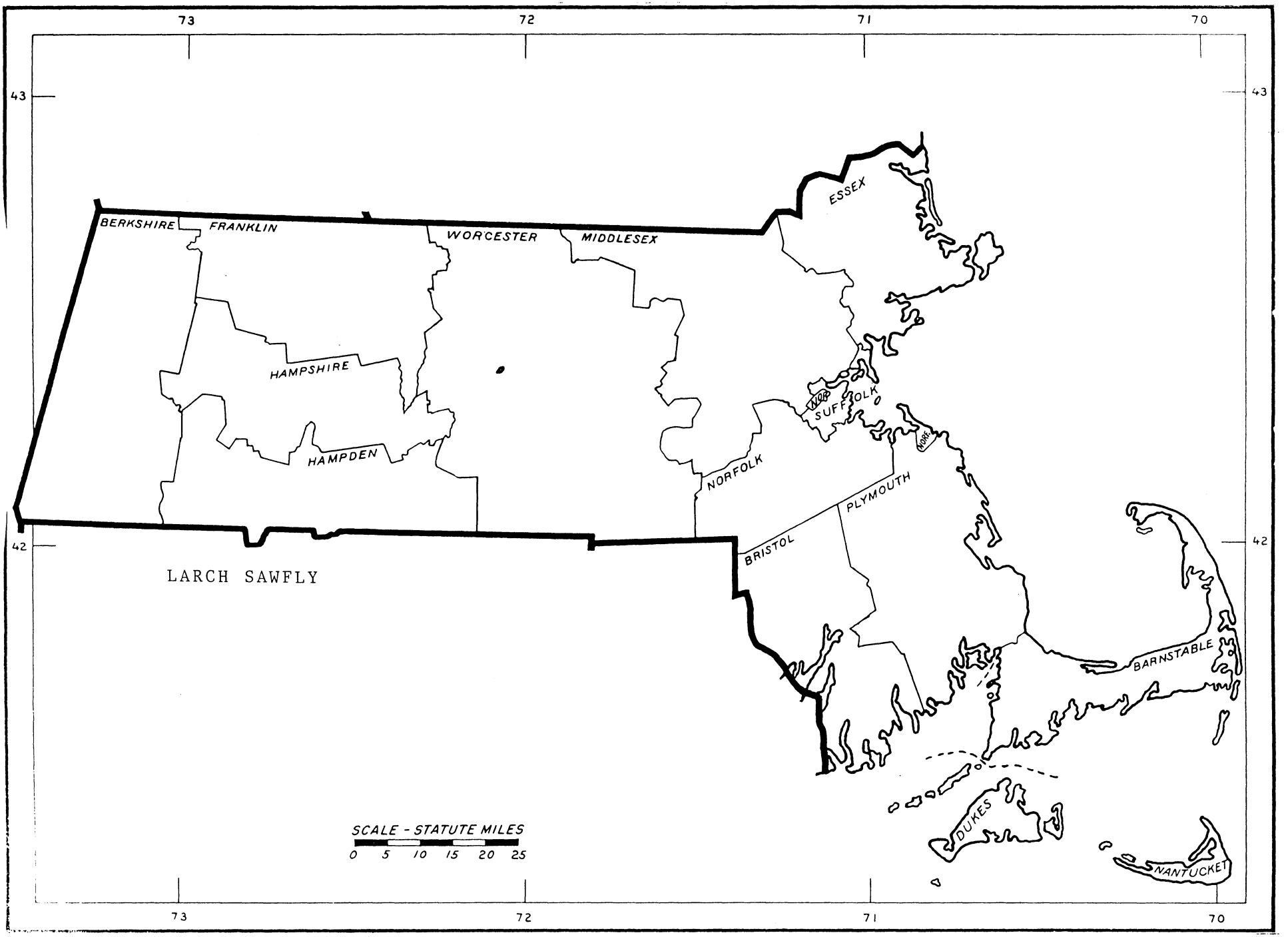
MASSACHUSETTS



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FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Oak/Hickory	10,000 Acres	Heavy

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Oak Leaf Skeletonizer

SCIENTIFIC NAME Bucculatrix ainsliella

SPECIFIC TREE SPECIES AFFECTED Red Oak

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Mature Trees

SURVEY METHOD

Aerial and Ground Surveys

TREATMENT (if any)

None

TREND (Past and future)

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY	TOWNSHIP
Berkshire	Pittsfield, Clarksburg, Monterey
Worcester	Princeton, Fitchburg

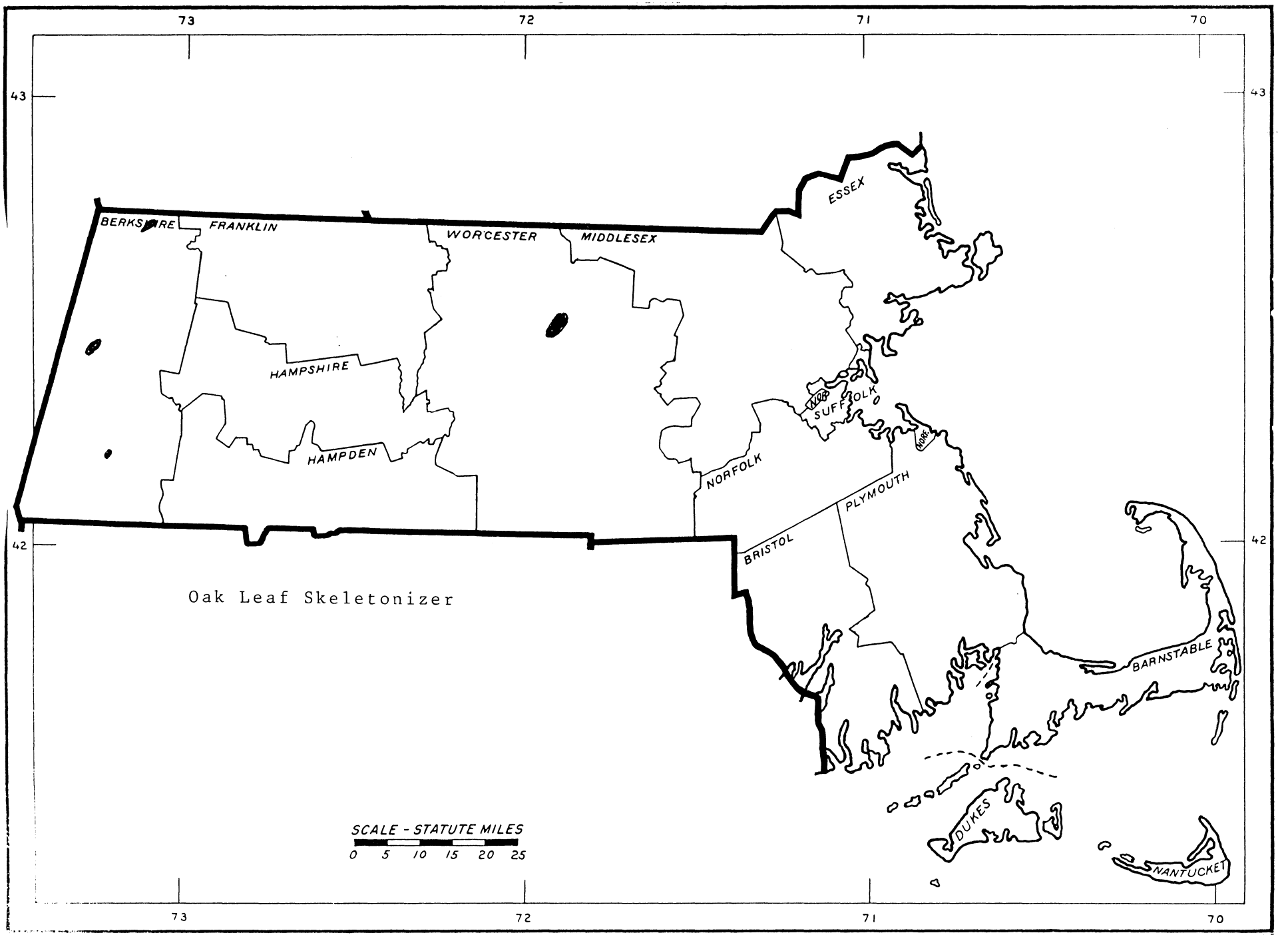
(If needed, continue on reverse side)

COMMENTS

Most damage caused by the second generation

MA

MASSACHUSETTS



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FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Hard Pine	500	Moderate

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Pine looper

SCIENTIFIC NAME Lambfina pellucidaria

SPECIFIC TREE SPECIES AFFECTED Pitch Pine

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Mature trees

SURVEY METHOD

Ground

TREATMENT (if any)

None

TREND (Past and future)

Expected to increase, this is the second year of the current infestation

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY Plymouth **TOWNSHIP** Plymouth, Myle Standish State Forest

(If needed, continue on reverse side)

COMMENTS

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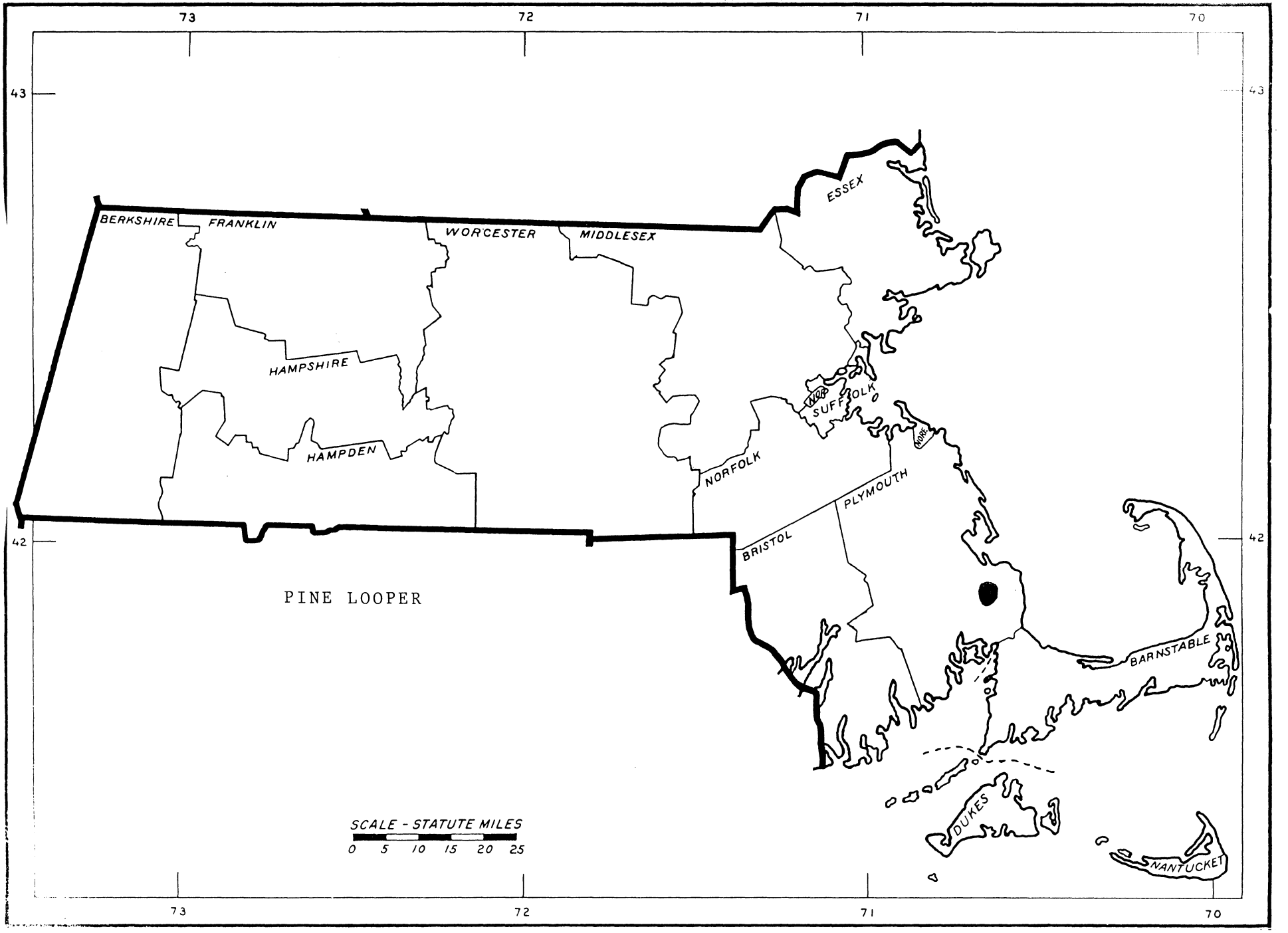
MASSACHUSETTS



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FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Hard Pine	3,187 Acres	Severe

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Pine Needle Miner

SCIENTIFIC NAME Exotelia pinifoliella

SPECIFIC TREE SPECIES AFFECTED Pitch Pine

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

All Age Classes

SURVEY METHOD

Aerial Survey

TREATMENT (if any)

None

TREND (Past and future)

Unknown, all of the defoliation was on Cape Cod and we have no field people in this area.

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY Barnstable **TOWNSHIP** Barnstable

Harwich

Chatham

Orleans

Eastham

Brewster

(If needed, continue on reverse side)

COMMENTS

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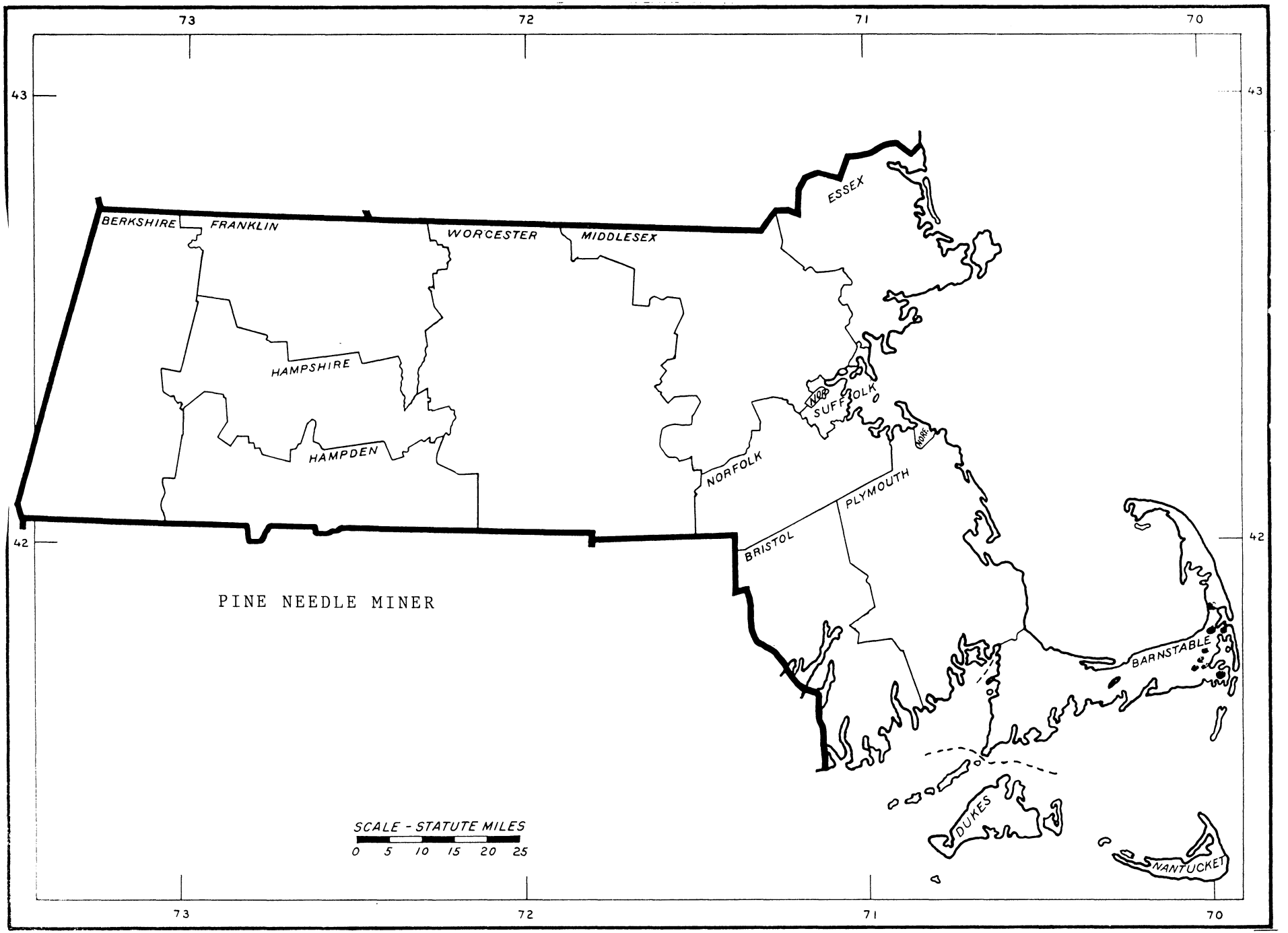
MASSACHUSETTS



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FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Aspen/Birch	200 Acres	Severe

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Satin Moth

SCIENTIFIC NAME Stilpnotia salicis

SPECIFIC TREE SPECIES AFFECTED All Poplar species

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Mature Trees

SURVEY METHOD

Ground

TREATMENT (if any)

None

TREND (Past and future)

Expected to decline

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY Berkshire **TOWNSHIP** Lee

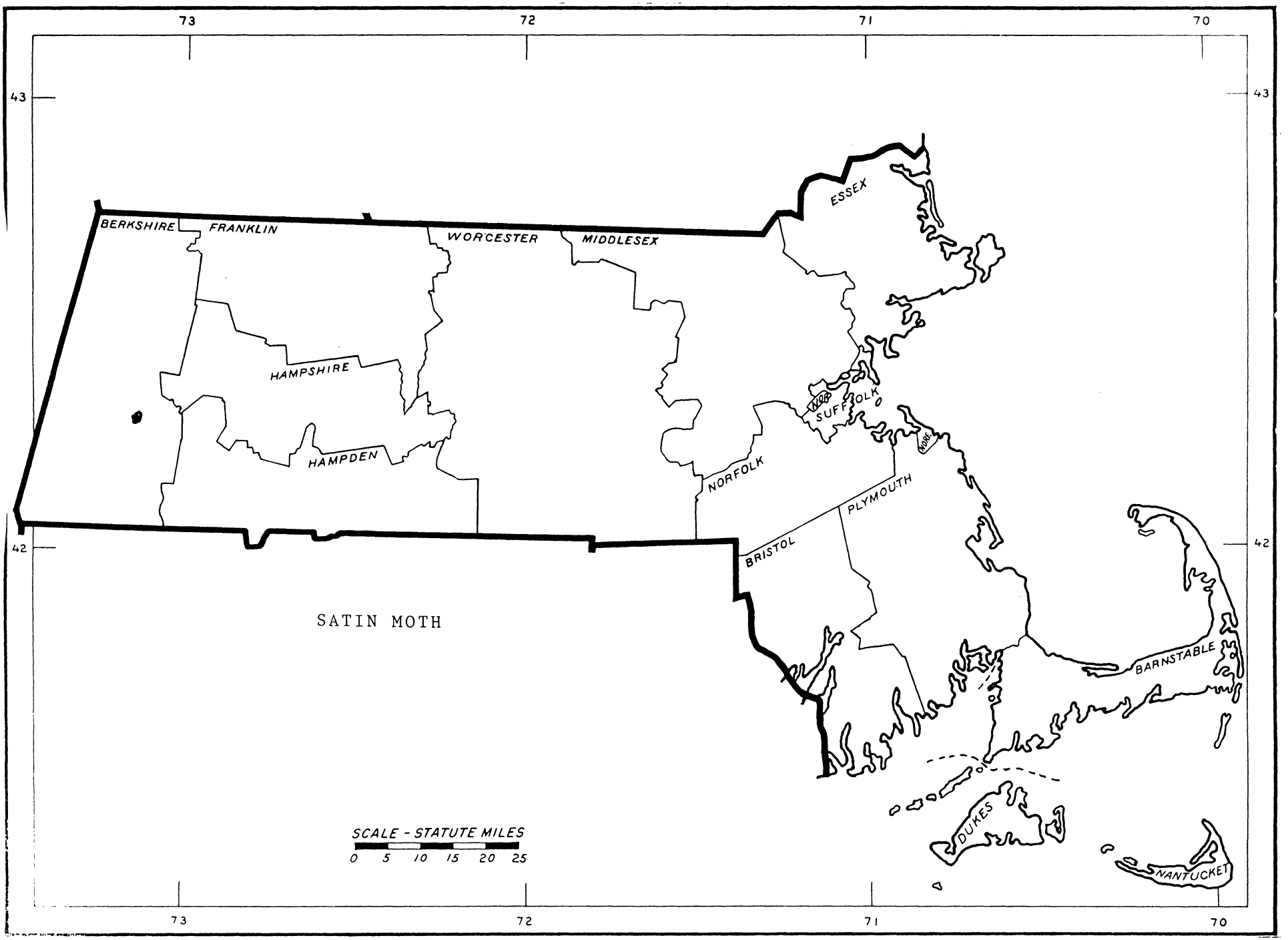
Becket

(If needed, continue on reverse side)

COMMENTS

MA

MASSACHUSETTS



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FOREST HEALTH WORKSHEET

AFFECTED FOREST TYPES*/OTHER**	ACRES/AREA AFFECTED	SEVERITY/PATTERN (Define classes)
Northern Hardwood	1,500	Severy

*Forest Type Group - White-Red-Jack Pine, Spruce-Fir, Hard Pine, Oak-Pine, Oak Hickory, Oak-Gum-Cypress, Elm-Ash-Cottonwood, Northern Hardwood, Aspen-Birch.

**Other - Urban-Ornamental, Nursery, Plantation.

DAMAGE

DAMAGE CAUSING AGENT Beech Bark Disease (Complex)

SCIENTIFIC NAME Nectria coccinea

SPECIFIC TREE SPECIES AFFECTED American Beech

AGE OF AFFECTED TREES (understory, pole, mature, regeneration)

Mature Trees

SURVEY METHOD

Ground Survey, Mortality noted on aerial survey

TREATMENT (if any)

None

TREND (Past and future)

Unknown

LOCATION **MAP ENCLOSED** X **TAPE ENCLOSED** _____

STATEWIDE _____ **OR:**

COUNTY Berkshire **TOWNSHIP** Savoy, North Adams, Williamstown

(If needed, continue on reverse side)

COMMENTS

Large area of beech dying in Northern Berkshire County

MA

MASSACHUSETTS